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the Belgian national conference, and of the International Association of Agricultural Missions of 1920; a memorandum presented to the Peace Conference on World Agricultural Principles by President K. L. Butterfield, of the Massachusetts Agricultural College; a tribute to the late David Lubin; Some Impressions of French Agriculture by Captain E. N. Wentworth, assistant director of the college of agriculture, American E. F. University; the State Society of Agricultural Teaching in France, by G. Wery, director of the National Institute of Agronomy; several shorter articles relative to the reconstruction of French agriculture; and other topics.

UNIVERSITY AND EDUCATIONAL NEWS

OFFERS of support and financial assistance towards the establishment of an agricultural college of university rank in the West Indies have been received from Trinidad, Barbados, Grenada, St. Lucia, St. Vincent, and the Leeward Islands, while Bermuda, although not in the West Indies, has offered an annual grant. On the recommendation of the West Indian Agricultural College Committee, Lord Milner has decided that the promises and prospects of support are sufficient to justify him in proceeding with the necessary arrangements for the establishment of the college. It will be situated in Trinidad, and plans for the buildings will shortly be prepared.

PART of the \$5,000,000 expected to be realized from a campaign for McGill University, Montreal, will be devoted to a building to house the departments of pathology, medical jurisprudence, hygiene and psychiatry. It is estimated that such a building would cost at least \$460,000, and its maintenance would require an endowment of \$150,000.

AT the college of engineering of the University of Wisconsin, A. A. Neff, graduate of the University of Nebraska, has been appointed associate professor of machine designing, and A. H. Anderson, of the Armour Institute of Technology, Chicago, associate professor of steam and gas engineering.

DR. B. J. SPENCE, professor of physics at the University of North Dakota, has resigned to accept a position in the department of physics of Northwestern University.

J. H. GOURLEY, professor of horticulture in the New Hampshire College, has become head of the horticultural department of the University of West Virginia.

DISCUSSION AND CORRESPONDENCE

AN UNFAVORABLE SPAWNING SEASON FOR MULLET

THE mullet, *Mugil cephalus* Linnæus, known as *ama-ama* in the native language, is one of the most extensively used food fishes of the Hawaiian Islands. The custom of taking very young mullet from the sea and stocking ponds with them has been practised for a long time. These ponds, usually walled-off arms of bays, are frequently of several acres in area and from them are taken annually thousands of mullet which have developed to marketable size within these enclosures.

Although a well-known fish, aside from the fact that the fishermen have learned to know the approximate time of the year when the fry are abundant in the sea, no definite information is at hand relative to the spawning season of the mullet or the conditions favorable to this process or to its later growth and development in these waters.

With a view of undertaking artificial propagation of the mullet the Board of Fish and Game Commissioners of the Territory delegated Mr. H. L. Kelley, executive officer, assisted by Mr. Irwin H. Wilson, fish culturist, to establish a small fish hatchery at Kalahuipuaa, Hawaii, which was completed early in January of the present year. From observations during previous years it was believed that the mullet spawned during January. In the pond on which the hatchery was located it was estimated that there were approximately 1,000 mature females approaching the period of spawning and nearly as many mature males. Careful observations were kept upon the condition of the mullet throughout January and February but no indications of spawning were to be seen. Attempts were made to force the